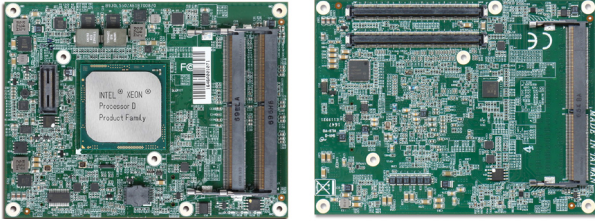


# PCOM-B700G

Intel® Pentium® / Xeon® D-1500 series Processor  
with DDR4 ECC 3x SO-DIMM sockets,  
1x PCIe 3.0 x16, 1x PCIe 3.0 x4 and 8x PCIe 2.0 x1



## FEATURES

- Intel® Pentium® / Xeon® D-1500 series Processor
- Support DDR4-2133 MT/s ECC/Non-ECC SDRAM on three SO-DIMM sockets, up to 48GB
- Support USB 2.0/3.0, 2x SATA III, 8x PCIe 2.0 x1, 1x PCIe 3.0 x4, and 1x PCIe 3.0 x16

PCOM-B700G, COM Express® Type 7 Basic Module designed with Intel® Pentium® and Xeon® D-1500 series processors. PCOM-B700G targets for Networking, Micro server applications. 10GbE LAN feature and three DDR4 SO-DIMM sockets supports up to 2133 MT/s and 48GB ECC memory.

## General

Product	PCOM-B700G									
Form Factor	COM Express® Type 7 Basic Rev. 3.0									
Processor	Intel® Pentium®				Intel® Xeon®					
	D1507	D1508	D1517	D1519	D-1527	D-1537	D-1539	D-1548	D-1557	D-1577
Core	2	2	4	4	4	8	8	8	12	16
Freq.	1.20 GHz	2.20 GHz	1.60 GHz	1.50 GHz	2.20 GHz	1.70 GHz	1.60 GHz	2.00 GHz	1.50 GHz	1.30 GHz
Turbo	1.20 GHz	2.60 GHz	2.20 GHz	2.10 GHz	2.70 GHz	2.30 GHz	2.20 GHz	2.60 GHz	2.10 GHz	2.10 GHz
Cache	3 MB	3 MB	6 MB	6 MB	6 MB	12 MB	12 MB	12 MB	18 MB	24 MB
Processor TDP	20 W	25 W	25 W	25 W	35 W	35 W	35 W	45 W	45 W	45 W
BIOS	AMI Aptio5 UEFI BIOS									
ECC Memory Supported	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Memory	3x DDR4 SO-DIMM sockets Dual channel Up to 48GB 2133 MT/s									

## I/O Interface

SATA	2x SATA III	
USB	4x USB 2.0 4x USB 3.0	
Ethernet	1 GbE (i210-AT)	
Serial I/O	GPIO	8 GPIO (4 GPI and 4 GPO)
	I2C	Baud Rate : 400KHz
	SMBus	Baud Rate : 100KHz
	UART	2 Serial Port (TX and RX)
PEG	1x PCIe 3.0 x16 (1x16 / 2x8 / 4x4 / 1x8 + 2x4)	
PCI Express	8x PCIe 2.0 x1 (8x1 / 4x2 / 2x4 / 1x4 + 2x2) 1x PCIe 3.0 x4 (1x4 / 2x2 / 4x1)	
Security	TPM 1.2 (Infineon SLB9660)	

## MECHANICAL & ENVIRONMENT

Dimension	125mm x 95mm (4.92" x 3.74")
Power DC IN	Nominal : +12V DC AT / ATX Mode
Storage Temperature	0°C ~ +60°C
Operating Temperature	0°C ~ +60°C Extended : -40°C ~ +85°C (Processor dependent)
Certification	CE FCC CLASS A
MTBF	Over 100,000 hours at 40°C
Vibration	TBD
OS	Windows 7/8/8.1/10 Linux Fedora 22 / Ubuntu 15.04 / CentOS 7

## ORDERING GUIDE

Product	Ordering P/N	Status
PCOM-B700G-D1527	AB1-3F51Z	Available
PCOM-B700G-D1539	AB1-3F52Z	Available
PCOM-B700G-D1548	AB1-3F53Z	Available

Accessory	Ordering P/N	Status
PCOM-B700G Cooler	Contact Portwell	Available
Evaluation Carrier PCOM-C700	Contact Portwell	Available

## BLOCK DIAGRAM

### PCOM-B700G

COM Express® Type 7  
Basic Module 125x95mm

AT / ATX Mode

-40° C ~ +85° C  
(Selected SKUs)

